

10/019 336

IFW

RJ

DOCKET NO.: 4223

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE MATTER OF THE PATENT

OF: A. VON GAISBERG et al.

PATENT NO.: 6,838,965 B1

ISSUE DATE: January 4, 2005

TITLE: ELECTROMAGNETIC ACTUATOR AND METHOD FOR ADJUSTING SAID  
ELECTROMAGNETIC ACTUATOR

Certificate

SEP 08 2005

of Correction

DECISIONS AND CERTIFICATE OF CORRECTION BRANCH

COMMISSIONER FOR PATENTS

P.O. BOX 1450

ALEXANDRIA, VA 22313-1450

September 2, 2005

REQUEST FOR RECONSIDERATION OF CERTIFICATE OF CORRECTION UNDER  
35 USC 255

Dear Sir:

- 1) Your letter of August 26, 2005 denies our request of March 7, 2005 for correction of an error in the References Cited. Please reconsider our request, and correct the error.
- 2) Our IDS Form PTO-1449 of December 19, 2003 had a typographical error in the US patent number of the "Sugimoto et al." patent cited as reference "AN". The patent number of the Sugimoto et al. patent is actually --6,230,673-- but was erroneously listed as "6,230,763".

Nonetheless, with the IDS of December 19, 2003 we enclosed and filed a copy of the correct reference US Patent 6,230,673 of Sugimoto et al., which is the actual reference that was presumably considered by the Examiner when reviewing the paper submission in the paper file of this application (before <sup>con</sup>version to IFW).

Note that US patent number "6,230,763" does not match with the patentee name "Sugimoto et al." as shown on our Form PTO-1449. There is clearly either a simple transposition error in the number or an entirely wrong name. Any question as to whether the number or the name was wrong is resolved by the fact that the actual reference copy enclosed with the IDS was US patent 6,230,673 of Sugimoto et al. Also, while the Sugimoto et

SEP 13 2005

al. patent (6,230,673) relates to the subject matter of this patent application, US patent 6,230,763 (Till) has nothing to do with the subject matter of this case.

To correct our typographical error in the patent number given on Form PTO-1449, we filed our Request for a Certificate of Correction under 35 USC 255 (applicant's error) and we paid the required fee of \$100.00. Thus, the error should now be corrected.

Alternatively, if the patent number will not be corrected then at least the patentee name must be corrected from "Till" to --Sugimoto et al.-- to truly reflect the actual record in conformance with our IDS Form PTO-1449.

- 3) We are enclosing a copy of our IDS Form PTO-1449 of December 19, 2003 (with an error in the patent number of reference "AN"), a copy of the front page of the correct Sugimoto et al. patent that was actually enclosed with the IDS, a copy of the front page of the wrong Till patent that was **NOT** filed with the IDS, and a new Form PTO-1050 showing the correction to be made.
- 4) Issuance of a Certificate of Correction will be much appreciated.

Respectfully submitted,

Alexander VON GAISBERG et al.  
Patentee

WFF:he/4223  
Enclosures: postcard,  
Form PTO-1050  
copy of Form PTO-1449 of 12/19/03  
copy of front page Sugimoto  
copy of front page Till

By Walter F. Fasse  
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CERTIFICATE OF MAILING:

I hereby certify that this correspondence with all indicated enclosures is being deposited with the U. S. Postal Service with sufficient postage as first-class mail, in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date indicated below.

M. Hellwig-Hill, Sept. 2, 05  
Name: M. Hellwig-Hill - Date: September 2, 2005

SEP 13 2005

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

**PATENT NO. : 6,838,965 B1**

**DATED : January 4, 2005**

**INVENTOR(S) : Von Gaisberg et al.**

**It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:**

Title page,

Item [56], References Cited,

Line 12, replace "6,230,763 B1 05/2001 Till" by --6,230,673 B1 05/2001 Sugimoto et al.--;

**ADDRESS OF SENDER: FASSE PATENT ATTORNEYS, P.A.**

**PATENT NO.: 6,838,965 B1**

**P. O. BOX 726  
Hampden, Maine 04444-0726 U.S.A.**

**Form PTO 1050 (REV.3-82)**

**SEP 13 2005**

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

**PATENT NO. : 6,838,965 B1**

**DATED : January 4, 2005**

**INVENTOR(S) : Von Gaisberg et al.**

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**PATENT NO.: 6,838,965 B1**

**P. O. BOX 726  
Hampden, Maine 04444-0726 U.S.A.**

**Form PTO 1050 (REV.3-82)**

**SEP 13 2005**



US006230673B1

(12) **United States Patent**  
Sugimoto et al.

(10) Patent No.: **US 6,230,673 B1**  
(45) Date of Patent: **May 15, 2001**

(54) **SOLENOID-OPERATED VALVE FOR INTERNAL COMBUSTION ENGINE**

(75) Inventors: Chihaya Sugimoto; Hisao Sakai; Kouichi Ikoma, all of Wako (JP)

(73) Assignee: Honda Giken Kogyo Kabushiki Kaisha, Tokyo (JP)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/440,669

(22) Filed: Nov. 16, 1999

(30) Foreign Application Priority Data

Nov. 26, 1998 (JP) ..... 10-336230

(51) Int. Cl.<sup>7</sup> ..... F01L 9/04

(52) U.S. Cl. .... 123/90.11; 123/90.65; 251/129.15; 251/129.16

(58) Field of Search ..... 123/90.11, 90.65; 251/129.01, 129.15, 129.16

(56) References Cited

**U.S. PATENT DOCUMENTS**

4,715,332 \* 12/1987 Kreuter ..... 123/90.11  
5,131,624 \* 7/1992 Kreuter et al. .... 251/129.18  
5,636,601 \* 6/1997 Moriya et al. .... 123/90.11  
5,996,539 \* 12/1999 Gobel et al. .... 123/90.11

6,125,803 \* 10/2000 Hattori et al. .... 123/90.11

\* cited by examiner

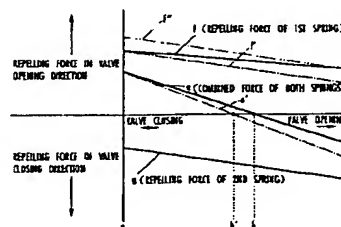
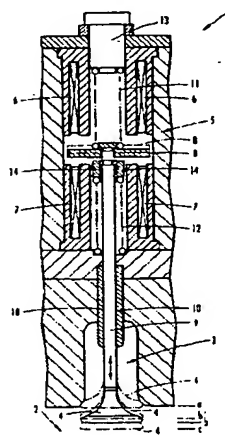
Primary Examiner—Weilun Lo

(74) Attorney, Agent, or Firm—Arent Fox Kintner Plotkin & Kahn

(57) **ABSTRACT**

A solenoid-operated valve for use in an internal combustion engine has a valve body movable upwardly for closing an exhaust or intake passage and movable downwardly for opening the exhaust or intake passage, a valve stem extending upwardly from the valve body, a pair of upper and lower solenoids spaced from each other in an axial direction of the valve stem and confronting each other vertically, the valve stem extending through the upper and lower solenoids, a movable plate mounted on the valve stem and disposed between the solenoids, the movable plate being movable between the solenoids to cause the valve stem to open and close the valve body in response to being magnetically attracted by the solenoids, a first spring for normally biasing the valve body to open the exhaust or intake passage, and a second spring for normally biasing the valve body to close the exhaust or intake passage against the first spring. The first spring has a resilient force greater than a resilient force of the second spring. The movable plate is positioned between an intermediate position between the upper and lower solenoids and the lower solenoid when the valve body biased by the first and second springs is in equilibrium.

2 Claims, 3 Drawing Sheets





US006230763B1

(12) **United States Patent**  
**Till**

(10) **Patent No.:** **US 6,230,763 B1**  
(45) **Date of Patent:** **May 15, 2001**

(54) **METHOD AND DEVICE FOR FILLING BARRELS**

(75) **Inventor:** **Volker Till, Hofheim (DE)**

(73) **Assignee:** **Gea Till GmbH & Co., Kriftel (DE)**

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** **09/380,361**

(22) **PCT Filed:** **Mar. 18, 1998**

(86) **PCT No.:** **PCT/EP98/01549**

§ 371 Date: **Aug. 30, 1999**

§ 102(e) Date: **Aug. 30, 1999**

(87) **PCT Pub. No.:** **WO98/49088**

**PCT Pub. Date:** **Nov. 5, 1998**

(30) **Foreign Application Priority Data**

Apr. 29, 1997 (DE) ..... 197 18 130  
May 14, 1997 (DE) ..... 197 20 170

(51) **Int. Cl.<sup>7</sup>** ..... **B65B 1/04**

(52) **U.S. Cl.** ..... **141/48; 141/9; 141/100; 137/170.3**

(58) **Field of Search** ..... 141/39-50, 9, 141/100, 63, 64; 137/170.1, 170.2, 170.3

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,357,245 \* 8/1944 Wetherby-Williams et al. .  
3,802,471 \* 4/1974 Wickenhauser ..... 141/39

\* cited by examiner

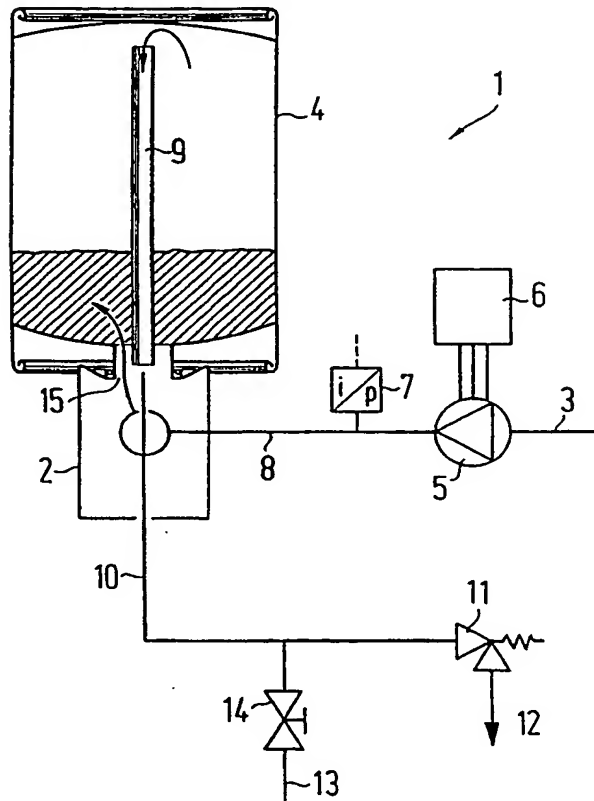
**Primary Examiner**—Steven O. Douglas

(74) **Attorney, Agent, or Firm**—Alix, Yale & Ristas, LLP

(57) **ABSTRACT**

Disclosed is a method for filling barrels (4), specially kegs, with liquids, wherein at least one gas is dissolved. The barrel (4) is pre-stressed using a gas before the liquid is filled. Liquid is then fed into the barrel (4) by means of a filling valve (2) pertaining to a filling station (1) and connected to a feed line (3, 8). During filling, the pre-stress gas contained in the barrel (4) is evacuated. So as not to impair the product, the pre-stress gas in the barrel (4) is pre-stressed at only a partial pressure which corresponds approximately to the saturation pressure of the CO<sub>2</sub> or N<sub>2</sub> which is dissolved in the filled liquid. Said partial pressure is lower than the maximum product pressure occurring in the feed line (8) prior to the filling valve (2).

**18 Claims, 2 Drawing Sheets**



Pat # 6,838,965



Sheet 1 of 1

Atty. Docket No.  
4223 ✓Serial No.:  
10/019,336 ✓

**SECOND**  
**LIST OF REFERENCES CITED BY**  
**APPLICANT**

(REVISED FORM PTO-1449)

DATED: Dec mb r 19, 2003

Applicant: Alexander von Gaisberg et al. ✓

U.S. Filing Date:  
December 18, 2001 ✓Art Unit:  
2832

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	Cl.	Sub- Cl.	File Date
BR	AK	5 1 9 9 3 9 2	04/1993	Kreuter et al. ✓	-	-	-
BR	AL	5 5 4 8 2 6 3	08/1996	Bulgatz et al. ✓	-	-	-
BR	AM	5 6 3 6 6 0 1	06/1997	Moriya et al. ✓	-	-	-
BR	AN	6 2 3 0 7 6 3	05/2001	Sugimoto et al. ✓	-	-	-

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	Cl.	Sub- Cl.	Trans.	
							Yes	No
BR	AO	2 - 8 1 9 4 0	03/1990	Japan ✓	-	-	Abst	
BR	AP	19 8 4 9 0 3 6	05/2000	Fed. Rep. of Germany ✓	-	-	Abst	

## OTHER DOCUMENTS

BR	AQ	"The Adaptive Fuzzy Control of Electromagnetic Actuator in Diesel Fuel Injection System"; Yuanchun Li et al.; Vehicle Electronics Conference, 1999, 6-9 Sept. 1999; Page(s): 149-152, Vol.1. ✓						
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EXAMINER

Bernard P. Rapp

DATE CONSIDERED

04/18/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

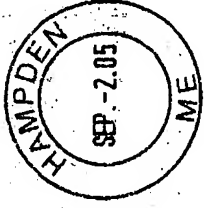
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FASSE PATENT ATTORNEYS

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Decisions and Certificate of  
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